Morphometry Analysis Report

Analysis Information
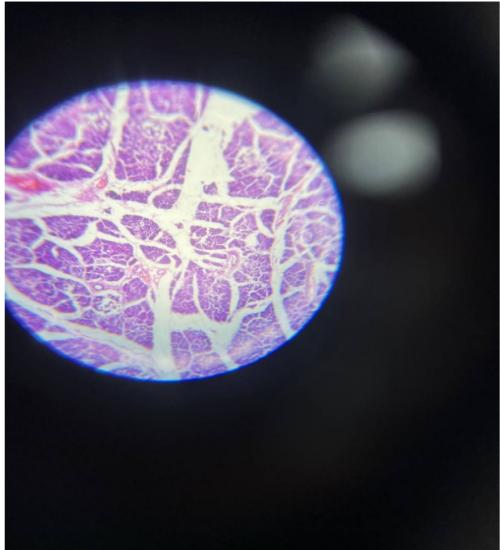
Sample ID:	N/A
Image File:	2025-12-05 11.00.56.jpg
Analysis Date:	2025-12-25 23:53:08
Total Cells:	87
Pixel Size:	1.0 µm
Segmentation Model:	cyto3
Preprocessing:	brightfield_pipeline, clahe(clip=2.0), bilateral(d=5)

Summary Statistics
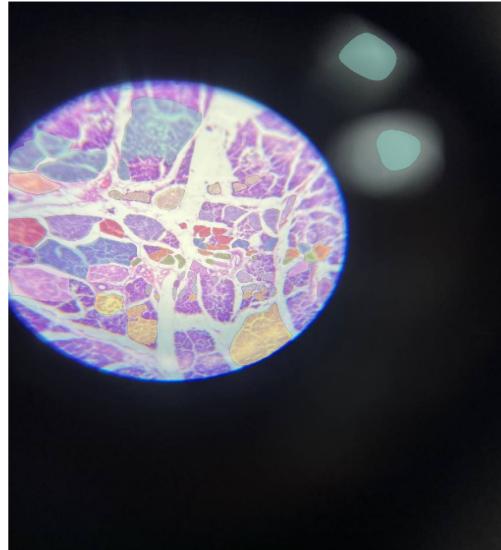
Metric	Mean	Std	Min	Max	Median
Area (px²)	1478.17	2690.96	75.00	17315.00	410.00
Perimeter (px)	123.67	107.45	30.14	594.88	82.28
Circularity	0.79	0.12	0.39	1.04	0.80
Eccentricity	0.75	0.16	0.23	0.98	0.79
Solidity	0.94	0.03	0.83	0.99	0.95
Aspect Ratio	1.74	0.58	1.03	5.20	1.63

Segmentation Results
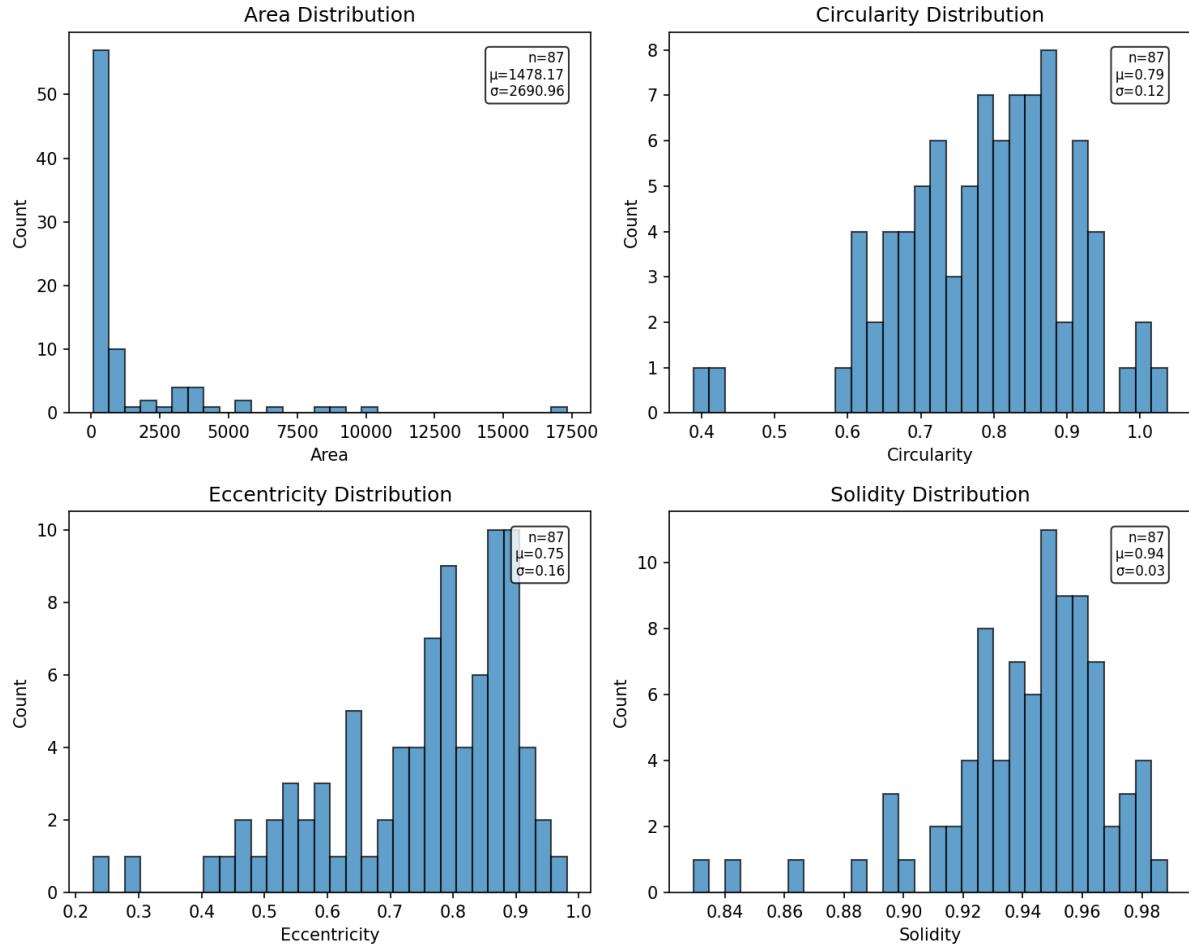
Original Image

Segmentation (87 cells)

Distribution Analysis

Area Distribution
n=87
μ=1478.17
σ=2690.96

Circularity Distribution
n=87
μ=0.79
σ=0.12

Eccentricity Distribution
n=87
μ=0.75
σ=0.16

Solidity Distribution
n=87
μ=0.94
σ=0.03

Individual Cell Measurements

cell_id	area	perimeter	circularity	eccentricity	solidity
1.000	8768.000	355.446	0.872	0.524	0.989
2.000	17315.000	594.884	0.615	0.567	0.909
3.000	6481.000	308.392	0.856	0.449	0.981
4.000	2970.000	228.693	0.714	0.787	0.963
5.000	3394.000	234.936	0.773	0.644	0.955
6.000	3150.000	253.995	0.614	0.891	0.923
7.000	3841.000	277.966	0.625	0.927	0.956
8.000	820.000	118.912	0.729	0.885	0.967
9.000	3539.000	259.480	0.661	0.890	0.956
10.000	434.000	79.497	0.863	0.752	0.967
11.000	465.000	86.184	0.787	0.697	0.936
12.000	486.000	83.113	0.884	0.468	0.960
13.000	2029.000	177.095	0.813	0.765	0.975
14.000	447.000	83.255	0.810	0.859	0.961
15.000	945.000	132.912	0.672	0.897	0.932
16.000	656.000	145.675	0.388	0.981	0.904
17.000	1023.000	128.225	0.782	0.631	0.960
18.000	1178.000	150.225	0.656	0.847	0.924
19.000	530.000	88.870	0.843	0.744	0.957
20.000	749.000	113.154	0.735	0.878	0.945
21.000	3220.000	230.350	0.763	0.806	0.964
22.000	4501.000	285.723	0.693	0.779	0.955
23.000	3839.000	236.409	0.863	0.499	0.979
24.000	1388.000	150.368	0.771	0.798	0.964
25.000	130.000	40.627	0.990	0.287	0.935
26.000	299.000	68.527	0.800	0.741	0.946
27.000	392.000	72.527	0.936	0.719	0.982
28.000	385.000	76.527	0.826	0.764	0.944
29.000	496.000	92.255	0.732	0.780	0.927
30.000	638.000	100.083	0.800	0.804	0.952
31.000	5396.000	336.836	0.598	0.844	0.893
32.000	269.000	66.527	0.764	0.719	0.915
33.000	464.000	90.669	0.709	0.833	0.896

34.000	5799.000	331.877	0.662	0.845	0.939
35.000	194.000	51.456	0.921	0.546	0.946
36.000	485.000	84.669	0.850	0.465	0.938
37.000	225.000	62.042	0.735	0.857	0.922
38.000	954.000	125.882	0.757	0.531	0.925
39.000	253.000	63.799	0.781	0.883	0.958
40.000	786.000	124.368	0.639	0.880	0.863
41.000	497.000	84.184	0.881	0.592	0.956
42.000	264.000	71.456	0.650	0.934	0.940
43.000	160.000	52.870	0.719	0.899	0.884
44.000	451.000	81.255	0.858	0.511	0.953
45.000	367.000	82.284	0.681	0.926	0.939
46.000	379.000	86.669	0.634	0.886	0.829
47.000	410.000	76.426	0.882	0.595	0.974
48.000	85.000	32.485	1.012	0.639	0.966
49.000	201.000	56.284	0.797	0.803	0.935
50.000	211.000	55.355	0.865	0.856	0.959
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